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NOTICE OF ALLOWANCE AND FEE(S) DUE

20995 7590 09/05/2008 KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET

KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614

EXAMINER			
GUDIBANDE, SATYANARAYAN R			
ART UNIT PAPER NUMBER			
1654 DATE MAILED: 09/05/20	nns		

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,589	02/27/2004	Sang Van	NDTCO.030A	7772

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/05/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further condicated unless corrected	form should be used for correspondence includir d below or directed oth	or transmitting the IS og the Patent, advance nerwise in Block 1, by	SUE FEE and PUBLICATI orders and notification of r (a) specifying a new corres	ON FEE (if require maintenance fees with pondence address;	ed). Blocks 1 through 5 If be mailed to the currer and/or (b) indicating a se	should be completed where nt correspondence address as parate "FEE ADDRESS" for	
maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			s) Not Feet paps	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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KNOBBE MARTENS OLSON & BEAR LLP 2040 MAIN STREET FOURTEENTH FLOOR		I he Stat addi tran	reby certify that this es Postal Service wi ressed to the Mail smitted to the USPT	Fee(s) Transmittal is bei th sufficient postage for f Stop ISSUE FEE addres O (571) 273-2885, on the	ing deposited with the United first class mail in an envelope a above, or being facsimile date indicated below.		
IRVINE, CA 926	514					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/789,589	02/27/2004		Sang Van		NDTCO.030A	7772	
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE			
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/05/2008	
EXAMI	NER	ART UNIT	CLASS-SUBCLASS				
GUDIBANDE, SAT	YANARAYAN R	1654	435-006000				
"Fee Address" indic PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AN		" Indication form ed. Use of a Customer A TO BE PRINTED O	registered attorney or a 2 registered patent atto listed, no name will be N THE PATENT (print or typ	wely, e firm (having as a regent) and the name: rneys or agents. If no printed.	member a 2s of up to o name is 3	document has been filed for	
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	SMALL ENTITY state	is. See 37 CFR 1.27.			L ENTITY status. See 37		
interest as shown by the re	cords of the United Sta	tes Patent and Tradema	ted from anyone other than t irk Office.	ne appucant; a regisi	tered attorney or agent; or	the assignee or other party in	
Authorized Signature _				Date			
Typed or printed name				Registration No			
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20995 75	90 09/05/2008		EXAMINER		
KNOBBE MARTENS OLSON & BEAR LLP			GUDIBANDE, SA	TYANARAYAN R	
2040 MAIN STREET			ART UNIT	PAPER NUMBER	
FOURTEENTH FI IRVINE, CA 9261			1654		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 802 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 802 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	105700 500	VAN ET AL.				
Notice of Allowability	10/789,589 Examiner	Art Unit				
Notice of Anomalinity	SATYANARAYANA R. GUDIBANDE	1654				
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-83) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not includ- will be mailed in due	ed course. THIS			
 This communication is responsive to 6/6/08. 	This communication is responsive to <u>6/6/08</u> .					
2. Mathematical The allowed claim(s) is/are 1.3.7.9-14.16.17.21 and 24-27.						
3.	been received. been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. iited. Note the attached EXAMINER as reason(s) why the oath or declara as the submitted. on's Patent Drawing Review (PTO s Amendment / Comment or in the C safe(s) should be written on the drawin he header according to 37 CFR 1:21(c).	complying with the re- S AMENDMENT or N tion is deficient. 948) attached Office action of rgs in the front (not the d) hust be submitted.	quirements IOTICE OF			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of 5/biologien/Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendr 8. ☐ Examiner's Stateme	(PTO-413), e nent/Comment	owance			
or biological inlaterial	9. Other					
/Andrew D Kosar/ Primary Examiner, Art Unit 1654						

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/6/08 has been entered.

Election/Restrictions

Claims 1, 3, 7 and 11 directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 9, 10, 12-14, 16, 17, 21, 24-27, directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 8/8/07 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See In re Ziegler, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dr. Che Chereskin on 8/8/08.

The application has been amended as follows:

Please cancel claims 22 and 23.

7. (Currently amended) The A complex for delivering an isolated DNA to a cell, comprising: (a) the isolated DNA, and (b) a of Claim 1 in which the biodegradable polyacetal-peptide, wherein the biodegradable polyacetal-peptide comprises at least one recurring unit represented by a formula selected from the group consisting of (III) and (IV):

wherein the peptide is selected from SEQ ID NOS: 5, 6 and 8;

wherein Y is selected from the group consisting of linear or branched C4H8,

C5H10, C6H12, C7H14, C8H16, C10H20, and C12H24; and

wherein W is a fatty acid moiety or a targeting ligand selected from the group consisting of galactose, lactose, mannose, transferrin, antibody fragment, and RGD peptide; and

m and n are positive integers.

- (Currently Amended) A method of making a complex for delivering a polynucleotide to a cell
 comprising intermixing a solution comprising the polyacetal-peptide of Claim + 11 to a second
 solution comprising the DNA.
- 10. (Currently Amended) A method for transfecting a <u>an animal</u> cell, comprising contacting the cell with the complex of Claim 9 <u>1</u>.
- 11. (Currently Amended) A polyacetal-peptide represented by formula (I) or (II)

12. (Currently Amended) A method of <u>animal</u> cell transfection comprising the steps of: (a) seeding cells to be transfected onto a solid support;
(b) mixing a DNA for transfection with the polyacetal peptide of claim 1;

Application/Control Number: 10/789,589

Art Unit: 1654

- (b) contacting the DNA-polyacetal-peptide mixture complex of claim 1 with the seeded cells on the solid support; and
- (c) incubating the solid support to allow transfection.
- (d) incubating the solid support to allow transfection.
- 16. (Currently Amended) The method of claim 12, wherein the polyacetal-peptide comprises at least one recurring unit represented by a formula selected from the group consisting of (III) and (IV-):

wherein the peptide is selected from SEQ ID NOS: 5, 6 and 8; wherein X is selected from the group consisting of CH₂CH₂, CH₂CH₂CH₂CH₂CH₂CH₂CH₂CH₃ and CH₂CH₂O CH₂CH₂O CH₂CH₃.

Ch₂CH₂: Wherein Y is selected from the group consisting of linear or branched C₂H₃, C₂H_{4,0};

C₄H₁₂, C₂H₁₄, C₄H₄₅, C₄H₄₆, and C₂H₂₄; wherein W is a fatty acid moiety or a targeting ligand selected from the group consisting of galactose, factose, mannose, transferrin, antibody fragment, and RGD peptide; and m and n are positive integer;

animal cell transfection comprising the steps of:

- animal cen transfection comprising the steps of.
- (a) seeding cells to be transfected onto a solid support;
- (b) contacting the complex of claim 7 with the seeded cells on the solid support; and
- (c) incubating the solid support to allow transfection.
- 17. (Currently Amended) The method of claim 12, wherein the solid support is selected from the group consisting of a multiwell plate, a dish, a flask, a tube, a slide and an implanted implantable device.
- 24. (Currently Amended) The method of claim 12 23, wherein the animal cells are mammalian cells

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satyanarayana R. Gudibande whose telephone number is 571-272-8146. The examiner can normally be reached on M-F 8-4.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Satyanarayana R Gudibande/ Examiner, Art Unit 1654

/Andrew D Kosar/ Primary Examiner, Art Unit 1654 Application/Control Number: 10/789,589

Page 7

Art Unit: 1654